

# *[MAGNETIC RESONANCE IMAGING WITH IMPROVED DIFFERENTIATION OF INFARCTED TISSUE]*

## **Abstract**

A method of generating a magnetic resonance image is provided, comprising subjecting a subject to a magnetic field. The subject comprised of a first tissue a second tissue and a third tissue. The method generates a first pulse sequence at a first TI time and generates a first image after the first pulse sequence. The first image has a first image first tissue magnitude, a first image second tissue magnitude, and a first image third tissue magnitude. The method then generates a second pulse sequence at a second TI time and generates a second image after the second pulse sequence. The second image has a second image first tissue magnitude, a second image second tissue magnitude, and a second image third tissue magnitude. Finally, the method generates a resultant image by combining the first image and the second image. The first image first tissue magnitude and the second image first tissue magnitude combine to form a positive resultant first tissue magnitude. The first image third tissue magnitude and the second

image third tissue magnitude combine to form a negative resultant image third tissue magnitude.